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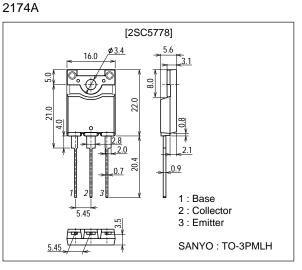
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- High speed.
- High breakdown voltage(VCBO=1600V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.
- On-chip damper diode.

Package Dimensions

unit : mm



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1600	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		15	А
Collector Current (Pulse)	ICP		35	Α
Collector Dissipation	PC		3.0	W
		Tc=25°C	85	W
Junction Temperature	Тј		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	VCB=800V, IE=0			10	μΑ
	ICES	V _{CE} =1600V, R _{BE} =0			1.0	mA
Emitter Cutoff Current	IEBO	VEB=4V, IC=0	40		200	mA

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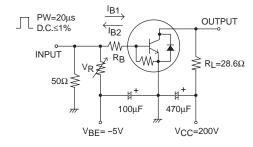
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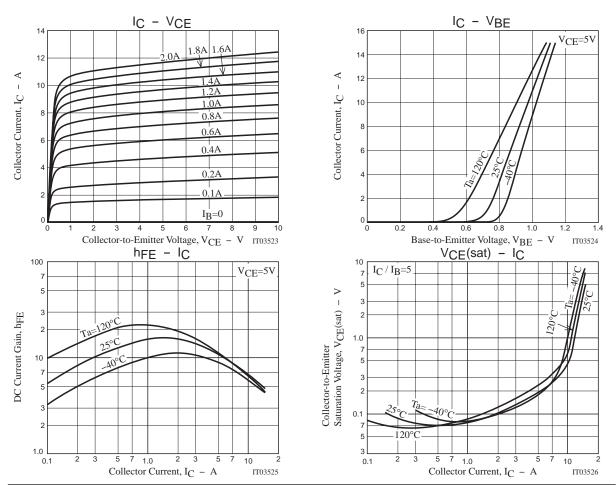
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

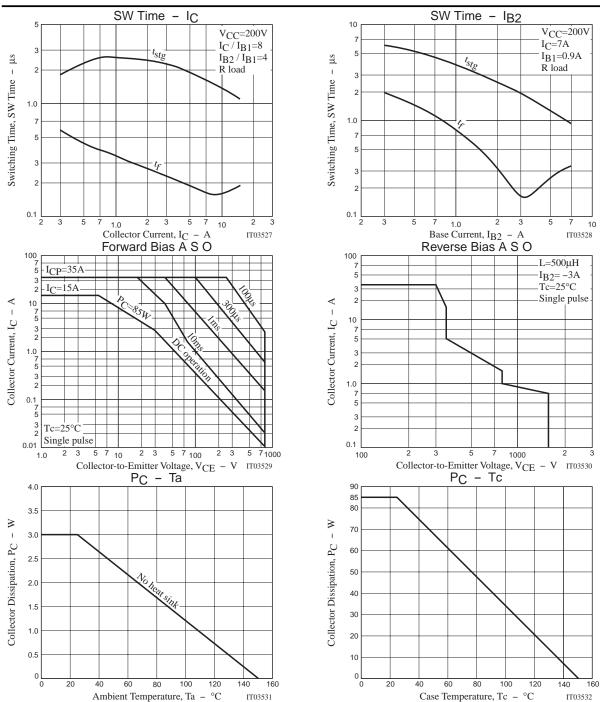
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
DC Current Gain	hFE1	VCE=5V, IC=1A	8			
	hFE2	V _{CE} =5V, I _C =11A	4		7	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=10A, IB=2.5A			3.0	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=10A, IB=2.5A			1.5	V
Storage Time	tstg	IC=7A, IB1=0.9A, IB2=-3.5A			3.0	μs
Fall Time	tf	IC=7A, IB1=0.9A, IB2=-3.5A			0.2	μs
Diode Forward Voltage	VF	IEC=12A			2.2	V

Switching Time Test Circuit







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